

WHAT IS CLAIMED IS:

1. A pre-pit detecting apparatus for an optical recording medium, which has information tracks for recording record information and guide tracks for guiding a light beam to the information tracks, and further has pre-pits carrying pre-information formed on the guide tracks, the pre-pit detecting device including a push-pull circuit, which when the optical beam is irradiated to one of the information tracks, computes the difference between a first read signal and a second read signal generated on the basis of outputs of electrical signals from a light receiving unit, divided into two parts by a division line at least optically parallel with the information track, to generate a difference signal, such that the pre-pit detecting device detects a pre-pit on the basis of the difference signal output from the push-pull circuit, wherein said push-pull circuit comprises

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an amplitude correcting device for computing the amplitude of the first read signal and the amplitude of the second read signal to bring both amplitudes close to each other and consequently make them coincide, such that said push-pull circuit performs a computation on the difference between the first and second read signals whose amplitudes have been made to coincide by said amplitude correcting device.

2. The pre-pit detecting apparatus according to claim 1, wherein said push-pull circuit further comprises a device for removing a direct-current component from the amplitude of the first read signal and a device for removing the direct-current component from the amplitude of the second read signal, wherein

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said amplitude correcting device computes the difference between the amplitudes of the first and second read signals, from which the direct-current component has been removed, to bring both amplitudes close to each other and consequently make them coincide.

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3. The pre-pit detecting apparatus according to claim 1, wherein the difference computed by said amplitude correcting device is the difference between the maximum amplitude of the first read signal and the maximum amplitude of the second read signal.

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4. The pre-pit detecting apparatus according to claim 2, wherein the difference computed by said amplitude correcting device is the difference between the maximum amplitude of the first read signal and the maximum amplitude of the second read signal.